$$\mathbb{M}_{\{1,2\}\to\{1,2,3\}}\left[1,\right.$$
$$\left.2\,z_1^2 - z_1\,z_3 - 2\,z_2\,z_3 - 2\,z_3^2 - 6\,z_1\,\zeta_1 - z_2\,\zeta_1 - 3\,\zeta_1^2 - 5\,z_1\,\zeta_2 + 3\,z_2\,\zeta_2 - 2\,z_3\,\zeta_2 - 4\,\zeta_1\,\zeta_2\right]$$

$$\mathbb{M}_{\{1,2,3\}\to\{1,2,3\}}\left[1,\ 2\,z_1^2 - 5\,z_1\,z_2 + z_2^2 + 2\,z_1\,z_3 + 3\,z_3^2 + 6\,z_1\,\zeta_1 + 4\,z_2\,\zeta_1 - z_3\,\zeta_1 - 3\,z_1\,\zeta_2 + \right.$$
$$\left.4\,z_2\,\zeta_2 + z_3\,\zeta_2 - 3\,\zeta_1\,\zeta_2 + 2\,\zeta_2^2 - 5\,z_1\,\zeta_3 + 2\,z_2\,\zeta_3 - z_3\,\zeta_3 - \zeta_1\,\zeta_3 + 2\,\zeta_2\,\zeta_3 + 3\,\zeta_3^2\right]$$

$$\mathbb{M}_{\{1,2,3\}\to\{1,2\}}\left[1,\ 3\,z_1^2 - z_2^2 + z_2\,\zeta_1 + 3\,\zeta_1^2 - 4\,z_1\,\zeta_2 + 3\,z_2\,\zeta_2 - 4\,\zeta_1\,\zeta_2 - 2\,\zeta_2^2 - z_1\,\zeta_3 - 2\,\zeta_1\,\zeta_3 - \zeta_3^2\right]$$